

CLAIMS

*Sub 1*  
1. A spreading code assigning method in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal  
5 doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an  
10 information symbol period, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming spreading  
15 codes for enlarging a band of a wide-band signal, a rate of said spreading codes being higher than an information rate, said method comprising the step of:

assigning a code associated with each base station group or a code associated with each network type to which said base station group belongs as  
20 said second spreading code.

2. A signal transmitting method in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal  
25 doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an  
information symbol period, said second spreading code having a longer repetition period than the  
30 information symbol period, said first spreading code and said second spreading code forming spreading codes for enlarging a band of a wide-band signal, a rate of said spreading codes being higher than an  
information rate, said method comprising the steps  
35 of:

assigning a code associated with each base station group or a code associated with each network

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transmitting a signal which is spread with  
said second spreading code between a base station  
5 and a mobile station.

20           a base station using said second spreading  
code assigned to each base station group or said  
second spreading code assigned to each network type  
to which said base station group belongs; and

4. A transmitter in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an information symbol period, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading

code forming spreading codes for enlarging a band of a wide-band signal, a rate of said spreading codes being higher than an information rate,

5       said transmitter assigning a code associated with each base station group or a code associated with each network type to which said base station group belongs as said second spreading code, and

10       said transmitter carrying out a communication using a signal spread by said second spreading code assigned to a base station.

5. A receiver in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a  
15       first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the same repetition period as an information symbol period, said second spreading code having a longer  
20       repetition period than the information symbol period, said first spreading code and said second spreading code forming spreading codes for enlarging a band of a wide-band signal, a rate of said spreading codes being higher than an information rate,

25       said receiver assigning a code associated with each base station group or a code associated with each network type to which said base station group belongs as said second spreading code, and

30       said receiver carrying out a communication using a signal spread by said second spreading code assigned to a base station.

6. A transceiver in a direct sequence CDMA mobile communication system for transmitting a signal after spreading said signal doubly with a  
35       first spreading code in a first spreading code group and a second spreading code in a second spreading code group, said first spreading code having the

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same repetition period as an information symbol period, said second spreading code having a longer repetition period than the information symbol period, said first spreading code and said second spreading code forming spreading codes for enlarging a band of a wide-band signal, a rate of said spreading codes being higher than an information rate,

5 said transceiver assigning a code associated with each base station group or a code associated with each network type to which said base station group belongs as said second spreading code, and

10 said transceiver carrying out a communication using a signal spread by said second spreading code assigned to a base station.

15 7. The transmitter in the direct sequence CDMA mobile communication system as claimed in claim 4, said transmitter comprising:

20 second spreading code control means which generates and controls said second spreading code associated with each base station group or each network type to which said base station group belongs.

25 8. The receiver in the direct sequence CDMA mobile communication system as claimed in claim 5, said receiver comprising:

30 second spreading code control means which generates and controls said second spreading code associated with each base station group or each network type to which said base station group belongs.

35 9. The transceiver in the direct sequence CDMA mobile communication system as claimed in claim 6, said transceiver comprising:

second spreading code control means which generates and controls said second spreading code associated with each base station group or each

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